PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

30.10.2026

KERN PLS 420-3F

High-quality precision scale with comfortable graphic display and enormous weighing range

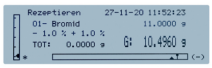
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FEATURES

- Convenient recipe-weighing with the recipe database, up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- Rapid and efficient operation thanks to the graphics display
- Dosage aid: High stability mode and other filter settings can be selected
- Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT
- CAL adjustment program for adjusting precision, external test weights available separately (see test weights)
- Ring-shaped draught shield standard, weighing space ⌀×H 150×60 mm
- Protective working cover included with delivery

TECHNICAL DATA

- Backlit LCD graphic display, digit height 15 mm
- Dimensions weighing surface ⌀ 110 mm, stainless steel
- Overall dimensions
  W×D×H 210×340×120 mm (without draught shield)
  W×D×H 210×340×160 mm (with draught shield)
- Weighing principle: Strain gauge
- Permissible ambient temperature 15 °C/35 °C

MAIN SCOPE OF APPLICATIONS

- Laboratory applications
- Research and development
- Jewellery and precious metal testing
- Environmental analysis
- Electronics industry

PICTOGRAMS

Standard



Option



MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Dimensions weighing surface
PLS 420-3F	420 g	0,001 g	0,001 g	± 0,004 g	110 mm
PLS 720-3A	720 g	0,001 g	0,001 g	± 0,002 g	110 mm
PLS 1200-3A	1200 g	0,001 g	0,001 g	± 0,003 g	110 mm
PLS 4200-2F	4200 g	0,01 g	0,01 g	± 0,04 g	160 mm
PLS 6200-2A	6200 g	0,01 g	0,01 g	± 0,03 g	160 mm
PLS 8000-2A	8200 g	0,01 g	0,01 g	± 0,04 g	160 mm
PLS 20000-1F	20000 g	0,1 g	0,1 g	± 0,4 g	200×175 mm

ACCESSORIES

Model	Description
315-208-205	Safety set 315-208-205, included weight 20 g (F1); 200 g (F1)
572-926	RS232 interface cable 572-926
ALT-A02	Density determination set ALT-A02
PLJ-A01S05	Protective working cover PLJ-A01S05, scope of delivery: 5 items
YKC-01	Thermal printer YKC-01
YKG-01	Dot Matrix Printer YKG-01
YKH-01	Thermal printer YKH-01
YKI-10	RS232-Ethernet adapter YKI-10 (RS-232 standard, Ethernet, RS-485)
YKI-11	RS232-Ethernet adapter YKI-11 (Ethernet, RS-232 standard - 2x)
YKI-12	RS232-WiFi adapter YKI-12
YKT-01	Needle printer YKT-01
YPS-03	Antivibration table YPS-03
YPS-04	Anti-vibration plate KERN YPS-04 (400×450×60 mm, 30 kg)
YPS-05	Anti-vibration plate KERN YPS-05 (565×450×60 mm, 42 kg)

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SOFTWARE

Model	Description
SCD-4.0-DL	Software SCD-4.0-DL (Scope of supplies: Download link for 1 license)
SCD-4.0-DLS05	Software SCD-4.0-DLS05 (Scope of supplies: Download link for 5 licenses)
SCD-4.0-PRO-DL	Software SCD-4.0-PRO-DL (Scope of supplies: Download link for 1 license)
SCD-4.0-PRO-DL-AS05	Software SCD-4.0-PRO-DL-AS05 (Scope of supplies: Download link for 5 licenses)

SERVICES

Model	Description
963-127	DAkkS calibration certificate 963-127
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
970-104	Warranty extension (+2 years) 970-104

KERN Pictogram Overview

	External adjustment: Adjusting accuracy using external adjustment weight
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	GLP/ISO protocol: The measuring device generates a GLP-compliant printout
	Value & time: The measuring device displays the value, date, and time, regardless of the connected printer
	Piece counting: Reference quantities selectable. Display can be switched from piece to weight
	Formulation: Internal memory for complete recipes with name and target value of recipe components. Display-supported user guidance
	Density determination: The density of liquids and solids with a density of ≤ /≥ 1 is determined directly in the measuring device
	Percentage determination: determining the deviation in % from the target value (100 %)
	Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal
	Suspended weighing: Load support with hook on the underside of the balance
	Universal plug-in power supply: With universal input and optional input socket adapters for EU, CH, GB or EU, CH, GB, US or EU, CH, GB, US, AUS
	Weighing principle Strain gauges: Electrical resistor on an elastic deforming body
	Package shipment by courier service: The duration of internal product provision is one day
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days

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